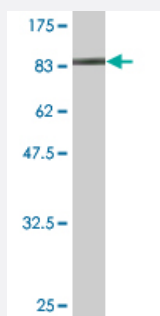


GAD1 monoclonal antibody (M04), clone 4B11

Catalog # H00002571-M04

Size 100 ug

Applications



Western Blot detection against Immunogen (91.08 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a full-length recombinant GAD1.

Immunogen

GAD1 (AAH37780, 1 a.a. ~ 594 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Sequence

MASSTPSSSATSSNAGADPNTTNLRPTTYDTWCGVAHGCTRKLGLKICGFLQRTNSLEEKSRVLS
AFKERQSSKNLLSCENS DRDARFRRTETDFS NLFARDLLPAKNGEEQTVQFLLEVVDILLNYVRK
TFDRSTKVLD FHHPHQLLEGMEGFNLELSDHPESLEQILVDCRDTLKYGVRTGHP RFFNQLSTGL
DIIGLAGEWL TSTANTNMFTYEIAPV FVLMEQITLKKMREIVGWSSKDGDGIFSPGGAISNMYSIMAA
RYKYFPEVKTGMAAVPKLVLTSEQSRYSIKKAGAAALGFGTDNVILK CNERGEIIPADFEAKILEA
KQKGYVPFYVNATAGTTVYGAFDPIQEIADICEKYNLWLHVDAAWGGGLLSRKHRHKLNGIERAN
SVTWNPHKMMGVLLQCSAILVKEKGILQGCNQMCAGYLFQPDQYDVS YDTGDKAIQCGRHVDIF
KFWLMWKAKGTVGFENQINKCLELAEYLYAKIKNREEFEMVFNGEPEHTNVCFWYIPQSLRGVPD
SPQRREKLHKVAPKIKALMMESGTTMVGYPQGDKANFFRMVISNPAATQSDIDFLIEEIERLGQD
L

Host

Mouse

Reactivity

Human

Interspecies Antigen Sequence

Mouse (97); Rat (97)

Isotype

IgG2a Kappa

Quality Control Testing

Antibody Reactive Against Recombinant Protein.
Western Blot detection against Immunogen (91.08 KDa) .

Storage Buffer

In 1x PBS, pH 7.4

Storage Instruction

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

Gene Info — GAD1

Entrez GeneID

[2571](#)

GeneBank Accession#

[BC037780](#)

Protein Accession#

[AAH37780](#)

Gene Name

GAD1

Gene Alias

FLJ45882, GAD, SCP

Gene Description

glutamate decarboxylase 1 (brain, 67kDa)

Omim ID

[603513](#) [605363](#)

Gene Ontology

[Hyperlink](#)

Gene Summary

This gene encodes one of several forms of glutamic acid decarboxylase, identified as a major autoantigen in insulin-dependent diabetes. The enzyme encoded is responsible for catalyzing the production of gamma-aminobutyric acid from L-glutamic acid. A pathogenic role for this enzyme has been identified in the human pancreas since it has been identified as an autoantigen and an autoreactive T cell target in insulin-dependent diabetes. This gene may also play a role in the stiff man syndrome. Deficiency in this enzyme has been shown to lead to pyridoxine dependency with seizures. Alternative splicing of this gene results in two products, the predominant 67-kD form and a less frequent 25-kD form. [provided by RefSeq]

Other Designations

OTTHUMP00000041055|glutamate decarboxylase 1|glutamate decarboxylase 1 (brain, 67kD)

Pathway

- [Alanine](#)
- [beta-Alanine metabolism](#)
- [Butanoate metabolism](#)
- [Metabolic pathways](#)
- [Taurine and hypotaurine metabolism](#)
- [Type I diabetes mellitus](#)

Disease

- [Alcoholism](#)
- [Anxiety Disorders](#)
- [Autistic Disorder](#)
- [Bipolar Disorder](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Cognition](#)
- [Depressive Disorder](#)
- [Disease Models](#)
- [Genetic Predisposition to Disease](#)
- [Hypercholesterolemia](#)
- [Kidney Failure](#)
- [Mental Disorders](#)
- [Neuropsychological Tests](#)
- [Neurotic Disorders](#)
- [Psychiatric Status Rating Scales](#)

- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Sleep Disorders](#)
- [Weight Gain](#)